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A non-circular flat motor in which terminal portions are installed at dead space and a manufacturing method thereof are disclosed. Since a flexible sheet type feeder terminal is not adopted, the motor can be easily held by a transferring apparatus and automatically mounted. Also, the feeder terminal has solderability and is easy to be reflow-soldered. A rotor and a housing supporting the rotor are formed to be non-circular when viewed in a plane. Feeder terminals or installation terminals are arranged at corner portions at the side surfaces of the housing which are angled and using a circle as an inscribed circle. At least one feeder terminal of a high electric potential is insulated from the other portion. The corner portion is formed to be concave so that each of the terminals is prevented from protruding outward from the housing. Each of the terminals are bent to be easily reflow-soldered and exposed to the side of the housing.

[illegible]